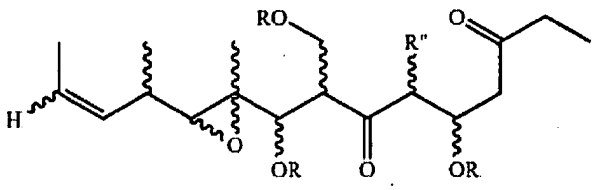
AMENDMENTS TO THE CLAIMS

Claim Listing

1. (currently amended) A compound of the general formula I, ~~or~~ a pharmaceutically acceptable salt, ~~derivative, prodrug~~ or a stereoisomer thereof



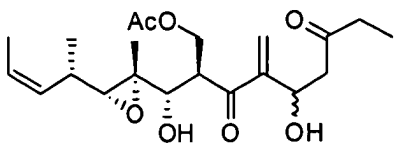
(I)

wherein ~~the substituent groups defined by~~ each R ~~are each~~ is independently selected from the group consisting of H, SiR'_3, SOR', SO_2R', C(=O)R', C(=O)OR', C(=O)NHR', substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aryl, heteroaryl or aralkyl;

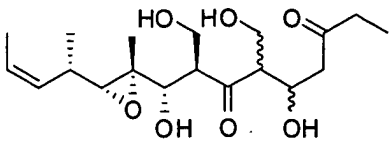
the group R' is independently selected from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aminoalkyl, aryl, aralkyl and heterocyclic groups; and

the group R" is selected from the group consisting of H, OH, OR', OCOR', SH, SR', SOR', SO_2R', NO_2, NH_2, NHR', $N(R')_2$, NHCOR', $N(COR')_2$, $NHSO_2R'$, CN, halogen, C(=O)H, C(=O)R', CO_2H, CO_2R', CH_2OR, substituted or unsubstituted alkyl, substituted or unsubstituted haloalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkylidene, substituted or unsubstituted alkynyl, substituted, or unsubstituted aryl, substituted or unsubstituted aralkyl and substituted or unsubstituted heteroaromatic;

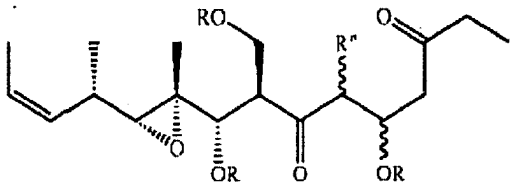
with the proviso that the compound is not a compound of formula



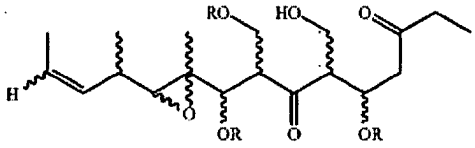
or



2. (previously presented) A compound according to claim 1, with the following stereochemistry

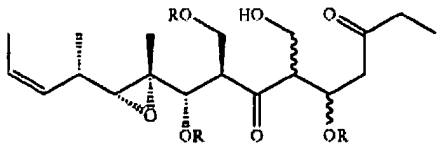


3. (previously presented) A compound according to claim 1, wherein R" is CH_2OH

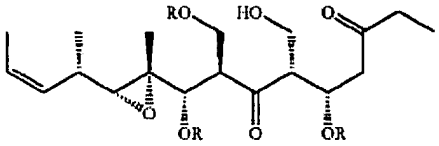


which may exist as one of the two isomeric forms at each isomeric center.

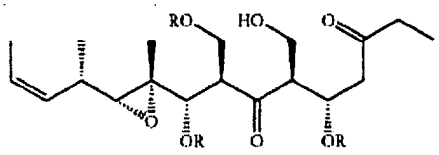
4. (previously presented) A compound according to claim 3, with the following stereochemistry



5. (previously presented) A compound according to claim 4, with the following stereochemistry



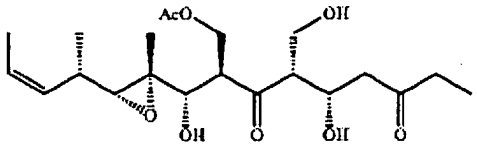
6. (previously presented) A compound according to claim 4, with the following stereochemistry



7. (original) A compound according to claim 1 or 2, wherein R" is a substituted or unsubstituted alkylidene.

8. (currently amended) A compound according to claim 3, wherein at least one ~~of the~~ R ~~substituents~~ is C(=O)R'.

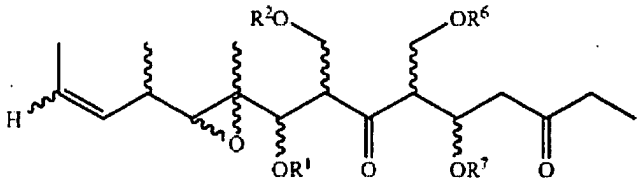
9. (previously presented) A compound according to claim 8, which is of formula



10. (currently amended) A compound according to claim 1, wherein at least one ~~of the~~ R ~~substituents~~ is selected from the group consisting of SiR'_3, SOR', SO_2R', C(=O)R', C(=O)OR', C(=O)NHR', substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aryl, heteroaryl or aralkyl.

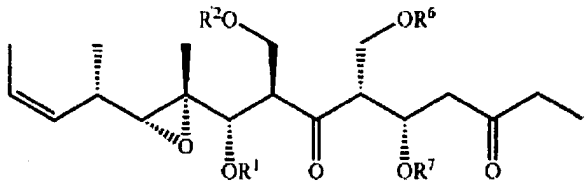
11. (currently amended) A compound according to claim 10, wherein ~~each group R that is not hydrogen is a protecting group, which may be the same or different~~ at least one R is selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

12. (currently amended) A compound according to claim 1 ~~claim 11~~, which is of formula



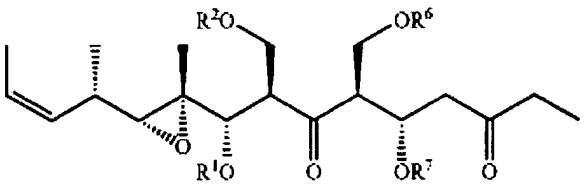
where R^1, R^2, R^6 and R^7 are ~~hydroxy protecting groups~~ each independently selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

13. (currently amended) A compound according to claim 12, which is of ~~the~~ formula ~~19:~~



where R^1, R^2, R^6 and R^7 are ~~hydroxy protecting groups~~ as defined in claim 12.

14. (currently amended) A compound according to claim 12, which is of ~~the~~ formula ~~30:~~



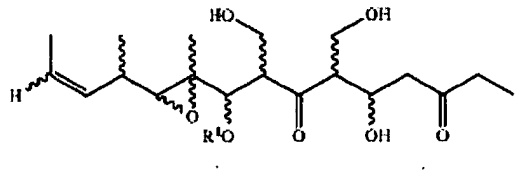
where R^1, R^2, R^6 and R^7 are ~~hydroxy protecting groups~~ as defined in claim 12.

15. (currently amended) A compound according to claim 12, wherein R^1, R^2, R^6 and R^7 are the same ~~protecting group~~.

16. (previously presented) A compound according to claim 12, wherein R^1, R^2, R^6 and R^7 are chosen from TBS ($tBuMe_2Si$-), TBDPS ($tBuPh_2Si$-), TES (Et_3Si-), MOM (CH_3OCH_2-), MEM ($CH_3OCH_2CH_2OCH_2$-), SEM ($(CH_3)_3SiCH_2CH_2OCH_2$-) and Ac- (CH_3CO-).

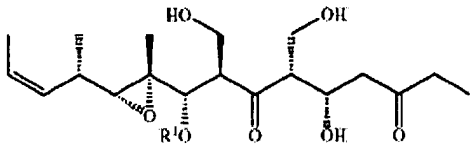
17. (original) A compound according to claim 16, wherein R^1, R^2, R^6 and R^7 are chosen from TBS ($tBuMe_2Si$-) and TBDPS ($tBuPh_2Si$-).

18. (currently amended) A compound according to claim 1 ~~claim 11~~, which is of formula



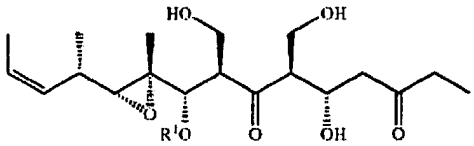
where R^1 is ~~a hydroxy protecting group~~ selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

19. (currently amended) A compound according to claim 18, which is of ~~the~~ formula:



where R^1 is as defined in claim 18.

20. (currently amended) A compound according to claim 18 ~~claim 11~~, which is of formula:



where R^1 is as defined in claim 18.

21. (currently amended) A compound according to claim 18 ~~claim 11~~, wherein ~~the protecting group~~ R^1 is TBS ($tBuMe_2Si$-).

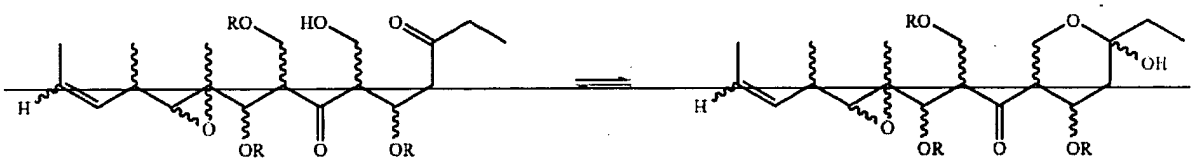
22. (previously presented) A pharmaceutical composition comprising a compound according to

claim 1, and a pharmaceutically acceptable carrier.

23. (withdrawn) A method of preparing a medicament for treating a tumor comprising combining a compound according to claim 1 with a pharmaceutically acceptable carrier.

24. (withdrawn) A method of treating a tumor which comprises administering an effective amount of a compound according to claim 1.

25. (withdrawn/currently amended) A process for synthesis of a ~~myriaporone~~ compound according to claim 3 ~~of formula 5:~~



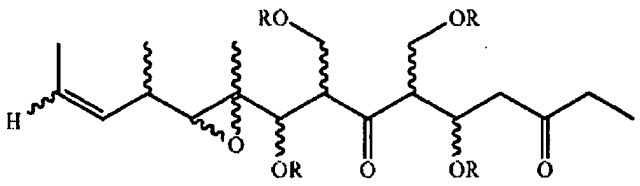
~~5~~

~~which may exist as a mixture of the ketone isomer and the hemiketal isomer, or as one of the two isomeric forms;~~

~~wherein the substituent groups defined by R are each independently selected from the group consisting of H, SiR'_3, SOR', SO_2R', C(=O)R', C(=O)OR', C(=O)NR', substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aryl, heteroaryl or aralkyl, and wherein at least one group R is hydrogen;~~

~~and wherein the group R' is selected from substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aminoalkyl, aryl, aralkyl and heterocyclic groups;~~

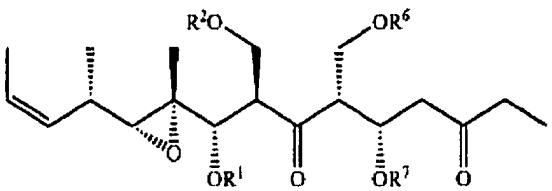
which comprises removing a protecting group from an intermediate compound of formula:



wherein ~~the substituent groups defined by~~ each R ~~are each~~ is independently selected from the group consisting of H, SiR'_3, SOR', SO_2R', C(=O)R', C(=O)OR', C(=O)NHR', substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, aryl, heteroaryl or aralkyl, and wherein for at least one R in the product compound of claim 3 that is hydrogen, the corresponding R in the intermediate compound above is ~~the or each group R to become hydrogen in the compound 5 is in the intermediate compound~~ a protecting group; and wherein the group R' is as defined in claim 3, and wherein each said protecting group is independently selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

26. (withdrawn/currently amended) A process according to claim 25, wherein more than one ~~group~~ R in the intermediate compound is a protecting group as defined in claim 25.

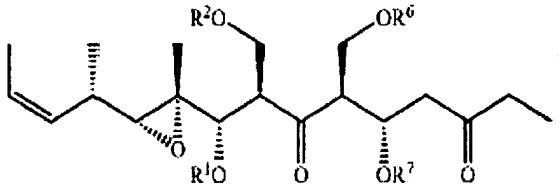
27. (withdrawn/currently amended) A process according to claim 25, which comprises ~~removing at least one protecting group from~~ replacing at least one moiety with hydrogen in a compound of formula ~~formula 19~~:



where said moiety to be replaced is selected from R^1, R^2, R^6, and R^7, and

where at least one R^1, R^2, R^6 and R^7 ~~are hydroxy protecting groups~~ is selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl, and the remaining moieties are defined as R according to claim 25.

28. (withdrawn/currently amended) A process according to claim 25, which comprises ~~removing at least one protecting group from~~ replacing at least one moiety with hydrogen in a compound of formula ~~formula 30~~:

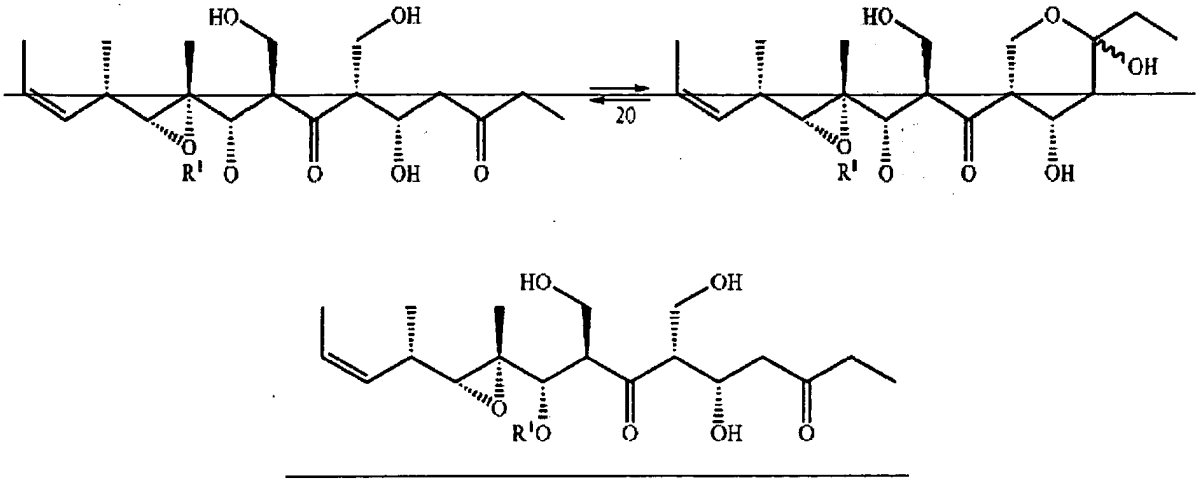


where said moiety to be replaced is selected from R^1, R^2, R^6, and R^7, and

where at least one R^1, R^2, R^6 and R^7 ~~are hydroxy protecting groups~~ is selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl, and the remaining moieties are defined as R according to claim 25.

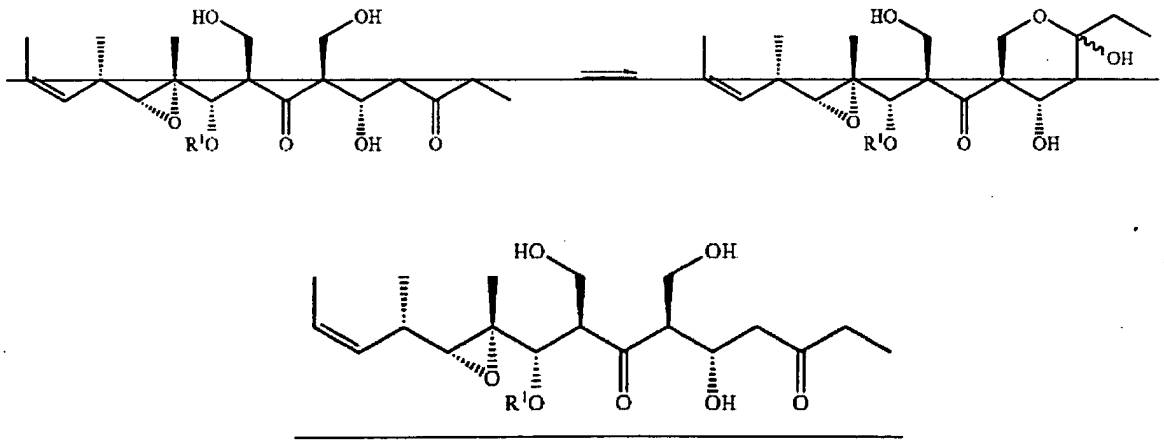
29. (withdrawn/currently amended) A process according to any of claims 25 to 28, wherein R^1, R^2, R^6 and R^7 are the same ~~protecting group~~ and are each replaced with hydrogen ~~removed~~.

30. (withdrawn/currently amended) A process according to claim 25, which comprises ~~removing a protecting group from~~ replacing R^1 with hydrogen in a compound of formula ~~formula 20~~:



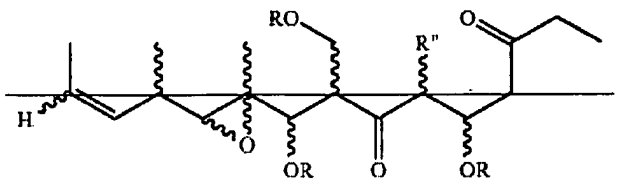
where R^1 is ~~a hydroxy protecting group~~ selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

31. (withdrawn/currently amended) A process according to claim 25, which comprises ~~removing a protecting group from~~ replacing R^1 with hydrogen in a compound of formula ~~formula 31~~:



where R^1 is ~~a hydroxy protecting group~~ selected from the group consisting of SiR'_3, C(=O)R', and substituted alkyl.

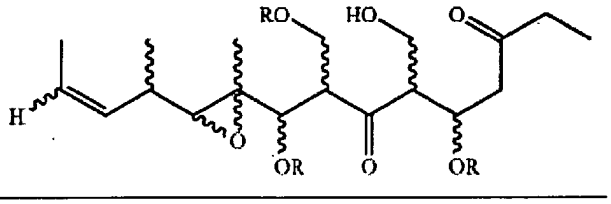
32. (withdrawn/currently amended) A process for synthesis of a ~~myriaporone~~ compound according to claim 1 ~~of formula I:~~



(I)

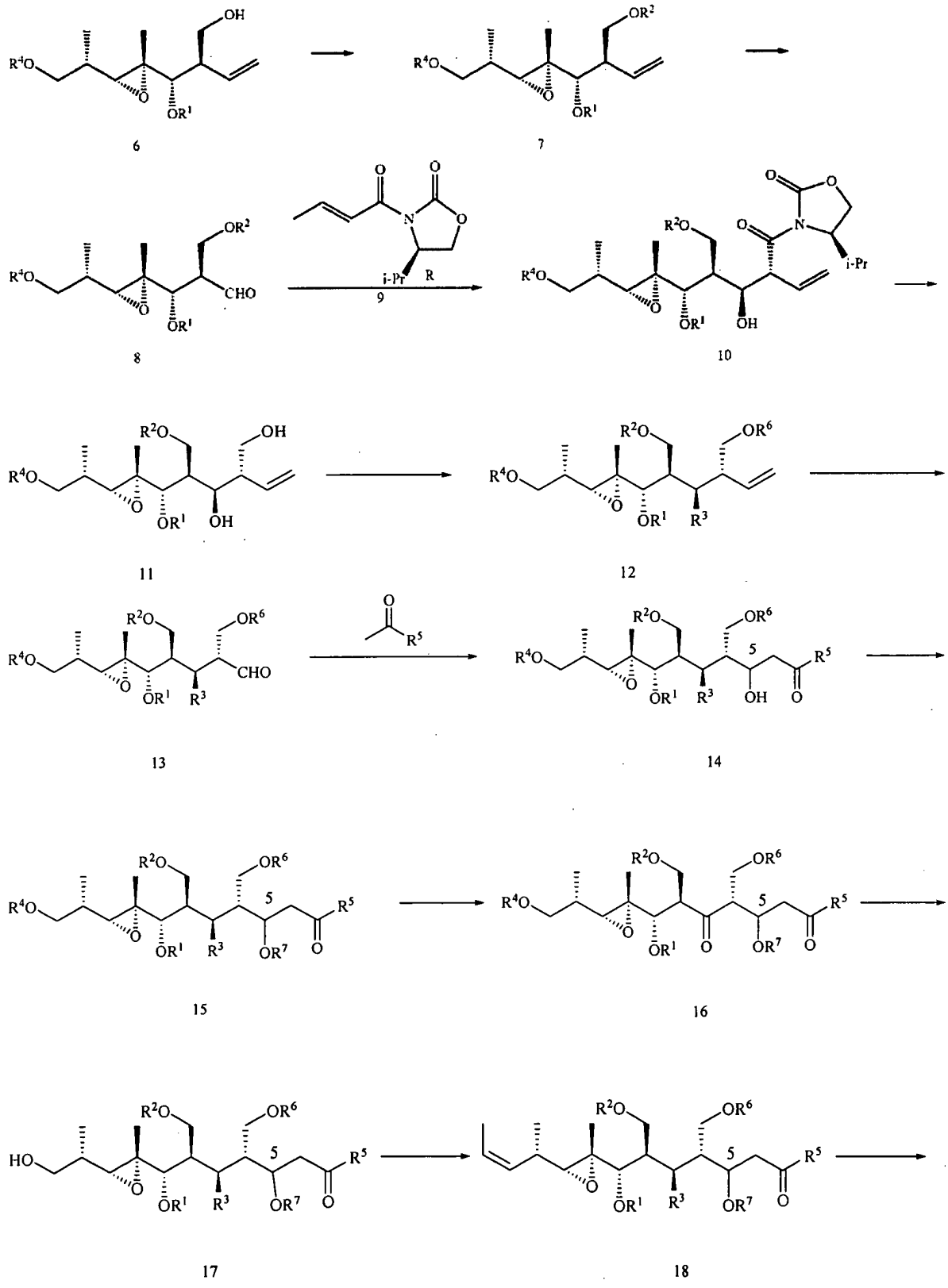
~~wherein the substituent groups R and R" are as defined in claim 1;~~

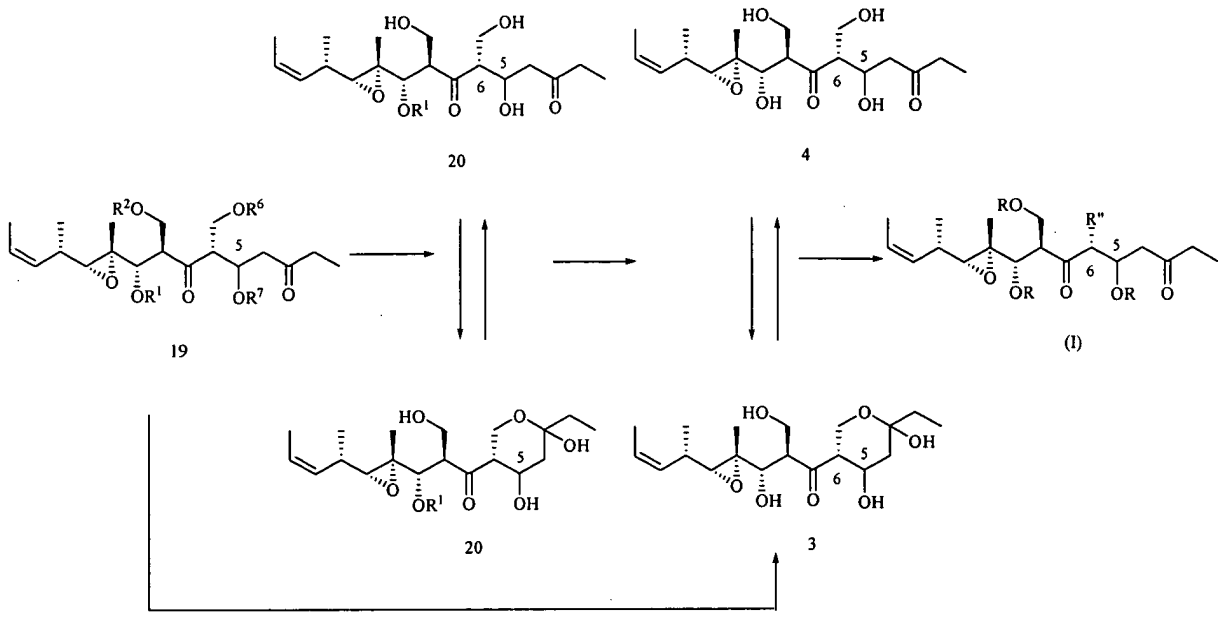
which comprises derivatisation of a compound of formula ~~formula 5~~:



which may exist as a mixture of the ketone isomer and the hemiketal isomer, or as one of the two isomeric forms; and wherein ~~the substituent groups are~~ R is as defined in claim 1 ~~claim 25~~.

33. (withdrawn/currently amended) A process according to claim 32 ~~claim 25, when carried out by~~ comprising the steps of Scheme 1 ~~starting~~ from compound 6

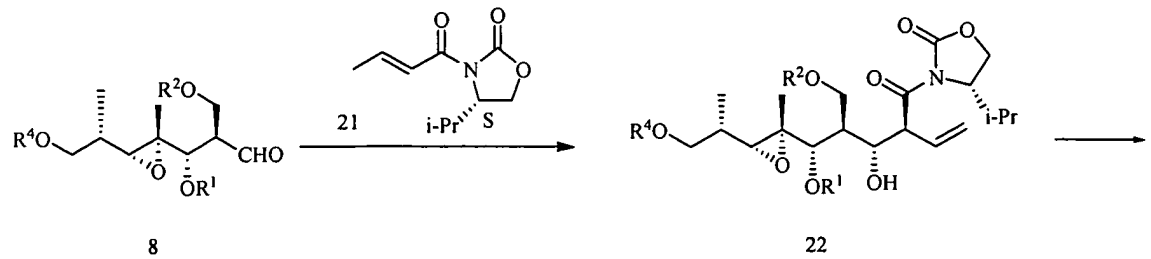


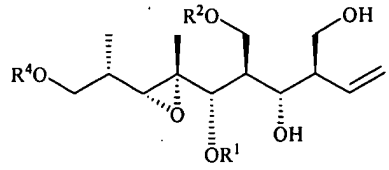


Scheme 1

where R^1, R^2, R^4, R^6 and R^7 are ~~hydroxy protecting groups~~ independently defined as R as defined in claim 32.

34. (withdrawn/currently amended) A process according to claim 32 ~~claim 25, when carried out by~~ comprising the steps of Scheme 2 ~~starting~~ from compound 8 ~~compound 6~~





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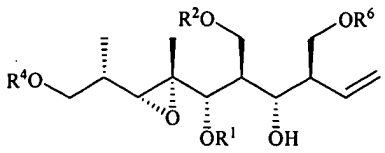

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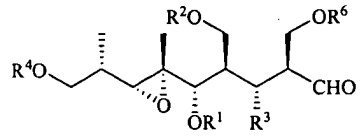

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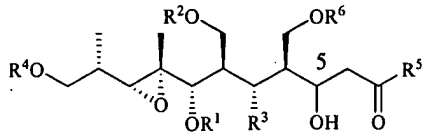

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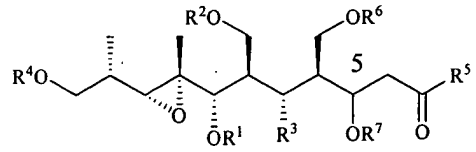

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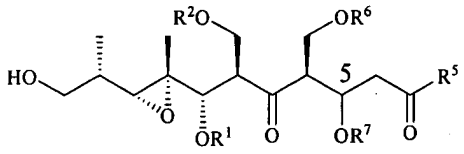

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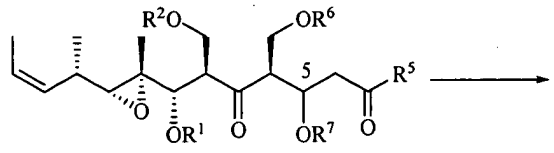

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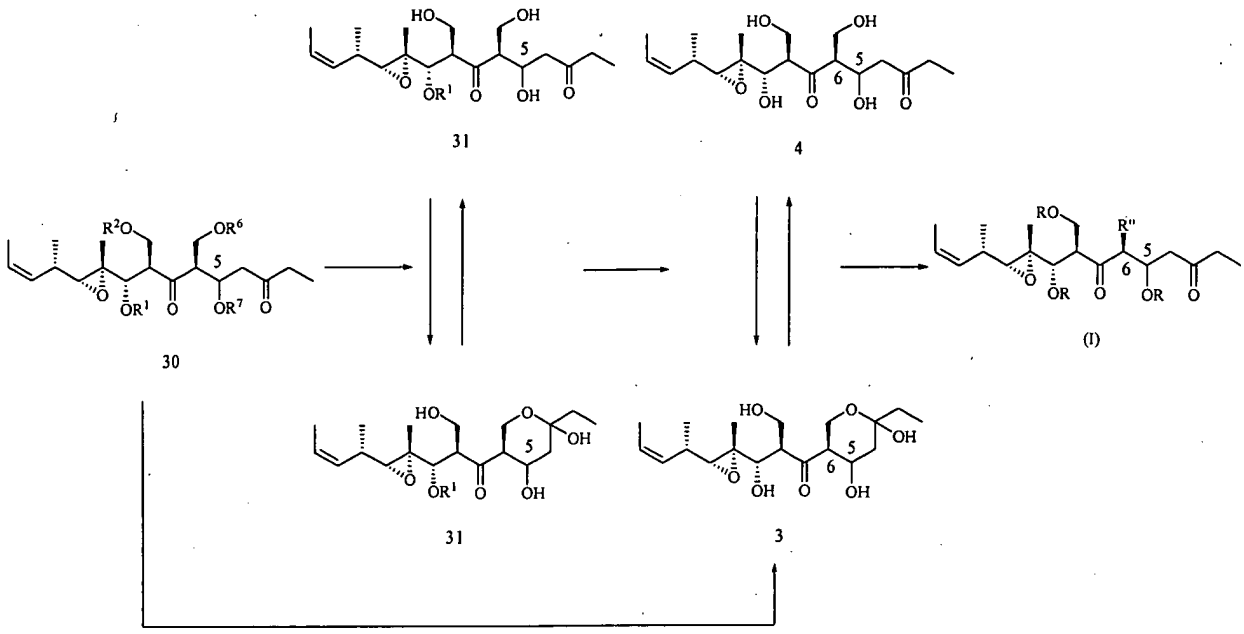

Scheme 2

where R^1, R^2, R^4, R^6 and R^7 are ~~hydroxy protecting groups~~ independently defined as R as defined in claim 32.

35-49. (canceled)